

Work Order ID 75224

October-19-11 11:09:21 AM

75224

Page 1

Item ID: D4055-3 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Tank Aft End
 Start Date: 19/10/2011 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 07/11/2011 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: MLJ Date: 11/10/11 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4055	B

100 0.00

100 Waterjet Memo 0.00 B11-11-21

FLOW CNC Waterjet Cut as per dwg D4055
 6061 . 063 Prog rev: B
 Dwg rev: B

110 QC2- Inspect parts off machine FAI/FAIB 0.00

110 QC Memo 0.00 B11-11-21

Quality Control

120 QC8- Inspect parts - second check 0.00

120 QC Memo 0.00 11.11.22 (4)

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224

October-19-11 11:09:21 AM

N900040100

Stop ***NS2***

4

4

Run Start *NR1*

Stop *NR2*

**Insp.
Stamp**

SB 11/1/24

July 24

4 BR 11-11-24.

W/O:		WORK ORDER CHANGES					
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
142	QC3- Inspect Part Finish	0.00							
142									
QC	Memo	0.00							
Quality Control									
150	Identify as per dwg & Stock Location <u>ST WPT</u>	0.00							
150									
Packaging	Memo	0.00							
Packaging									
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.00							
Quality Control									

4X M-11/11/24

(4K) SP 11-11-25.

11/11/28
mf 11-11-25

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Picklist Print

October-19-11 11:09:26 AM

Page 1

Work Order ID: 75224

75224

Parent Item: D4055-3

D4055-3

Parent Item Name: Tank Aft End

Start Date: 19/10/2011

Required Date: 07/11/2011

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP RevA: new issue DD 10.01.08 verified by:JLM
10.11.23 now made in house DD verf:EC

IPP rev:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6S.063		Purchased	No			100	sf	115.8856	1.5143	6.376			

M6061T6S 063

6061-T6 .063 Sheet

B(-11-21

Location

Loc Qty

Loc Code

MAT021

115.8855684

116308

26.9755684

117285

88.91

11931

119331

(4)

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DART AEROSPACE LTD		Work Order: 75224
Description: Tank Aft End		Part Number: D4055-3
Inspection Dwg: D4055	Rev: B	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.42	+/-0.030	BEND	✓		V BO2	
0.59	+/-0.030	.592	✓		V	
9.23	+/-0.030	9.23	✓		T BO1	
9.82	+/-0.030	9.82	✓		T	
0.59	+/-0.030	.603	✓		V	
0.65	+/-0.030	.65	✓		V	
23.34	+/-0.030	23.34	✓		T	
25.34	+/-0.030	25.34	✓		T	
25.51	+/-0.030	BEND			T	
25.93	+/-0.030	25.93	✓		T	
2.22	+/-0.030	2.230	✓		V	
5.13	+/-0.030	5.13	✓		V	
5.72	+/-0.030	5.72	✓		V	
6.05	+/-0.030	6.05	✓		V	
6.12	+/-0.030	6.12	✓		V	
7.11	+/-0.030	7.11	✓		V	
7.17	+/-0.030	7.17	✓		V	
7.76	+/-0.030	7.76	✓		V	
20.96	+/-0.030	20.96	✓		T	
21.02	+/-0.030	21.02	✓		T	
21.55	+/-0.030	21.55	✓		T	
25.34	+/-0.030	25.34	✓		T	
25.40	+/-0.030	25.40	✓		T	
0.063	+/-0.010	.060	✓		V	

Measured by: B	Audited by: [Signature]	Preliminary Approval:
Date: 11-11-21	Date: 11-11-22	Date:

Rev	Date	Change	Revised by	Approved
A	11.01.18	New Issue	KJ	
B	11.08.22	Dwg Rev updated	KJ [Signature]	[Signature]

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SHOP COPY
RETURN TO
ENGINEERING 2

UNCONTROLLED COPY

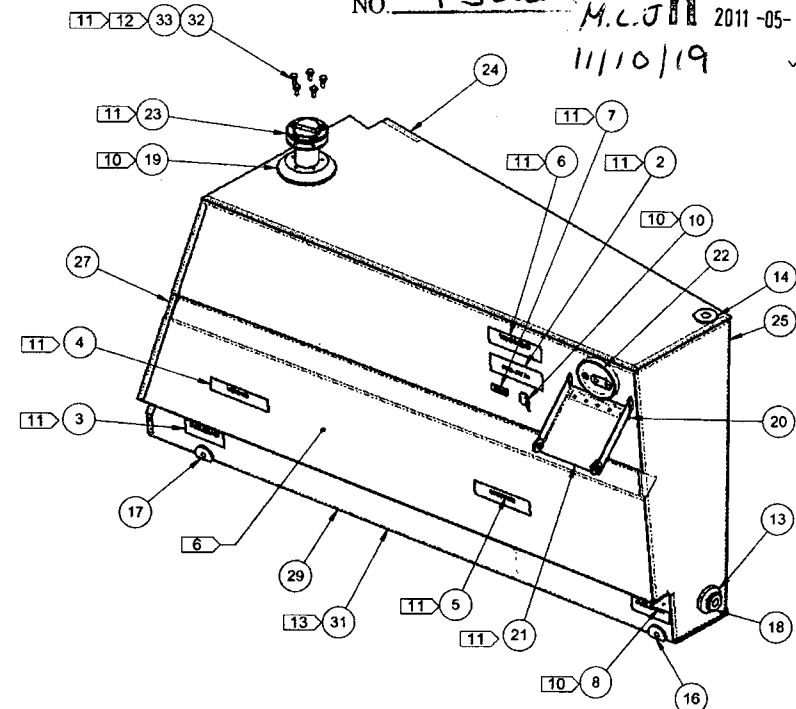
SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER

NO. 75224

RELEASED
M.C.J.R. 2011-05-30
11/10/19



ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D4055-041	FUEL TANK ASSEMBLY
2	1	D3997-1	PLACARD "FUEL JET A1"
3	2	D3997-5	PLACARD "AUX FUEL DRAIN"
4	1	D3997-11	PLACARD "LOADING"
5	1	D3997-17	PLACARD "STOWAGE"
6	1	D3997-29	PLACARD "WARNING"
7	1	D3997-43	PLACARD "EARTH"
8	1	D3999-7	CORNER
9	1	D3999-9	ANGLE
10	1	D3999-11	EARTH TAB
11	1	D3999-041	BAFFLE ASSEMBLY, AFT
12	1	D3999-043	BAFFLE ASSEMBLY, FWD
13	1	D4000-1	FUEL SUPPLY FITTING
14	1	D4000-5	FUEL TANK VENT FITTING
15	3	D4000-9	GROMMET
16	1	D4000-041	AFT FUEL SUMP DRAIN ASSEMBLY
17	1	D4000-043	FORWARD FUEL SUMP DRAIN ASSEMBLY
18	1	D4000-045	FUEL PICK UP AND STRAINER ASSEMBLY
19	1	D4001-1	FITTING
20	1	D4008-11	TANK HINGE HALF
21	1	D4008-041	FUEL FILLER SPLASH GUARD ASSEMBLY
22	1	D4023-3	FUEL CAP
23	1	D4025-1	FUEL SENDER
24	1	D4055-1	TANK TOP
25	1	D4055-3	TANK AFT END
26	1	D4055-5	TANK UPPER CUT OUT
27	1	D4055-7	TANK FORWARD END
28	1	D4055-9	TANK BACK
29	1	D4055-11	TANK FRONT AND BOTTOM
30	3	D4057-1	RETAINING RING
31	1	D4404-1	CUSHION
32	5	AN3H5A	BOLT
33	5	NAS1149D0363J	WASHER

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: TOUCH UP CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT "GREY SANDING" (4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D350-794-041" USING D2729-1 RED DECAL
- 7) WEIGHT: 27.57 lbs
- 8) WELD PER DART QSI 004
- 9) CAP ALL TANK ACCESS POINTS AND PRESSURIZE TANK TO 1.5 PSI AFTER ASSEMBLY. VERIFY NO LEAKS
- 10) MASK PRIOR TO POWDER COAT
- 11) INSTALL AFTER POWDER COAT. REMOVE TEXTURED FINISH LOCALLY PRIOR TO INSTALLATION
- 12) LOCKWIRE BOLTS AFTER INSTALLATION PER AC 43.13 OR MS33540
- 13) INSTALL CUSHION AFTER POWDER COAT USING CONTACT CEMENT. TRIM TO FIT IF REQUIRED.

D4055-041 FUEL TANK ASSEMBLY

B	MOVE CAP POSITION AND CHANGE CAP DESIGN. CHANGE FINISH REQUIREMENTS FOR ALL PARTS, ADD CUSHION UNDER TANK, CORRECT PART NUMBERS	HS	11.05.12
A	NEW ISSUE	HS	10.04.16
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	11.05.12		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. D4055			
TITLE TANK			
REV. B SHEET 1 OF 15 SCALE NTS			
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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

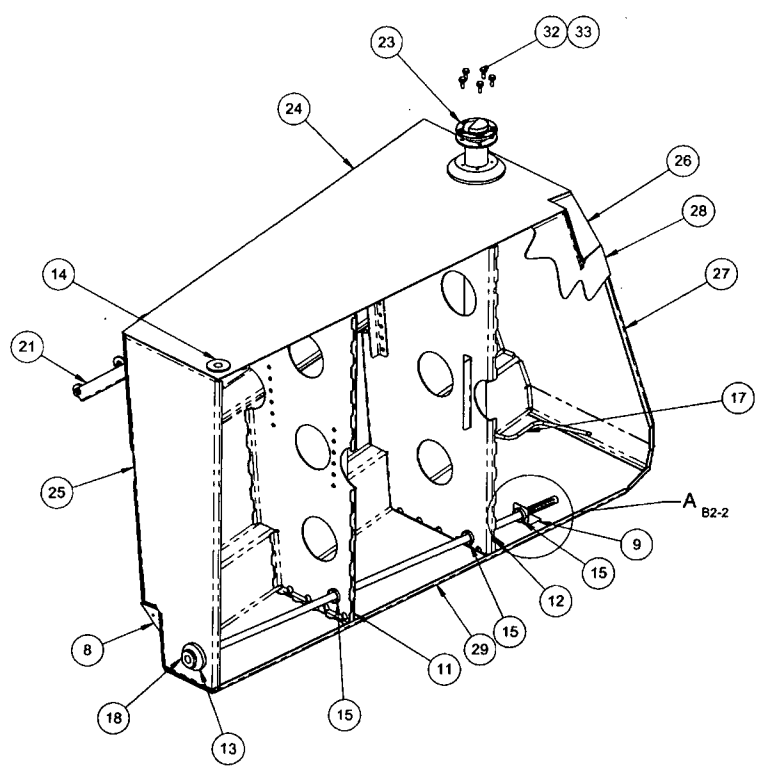
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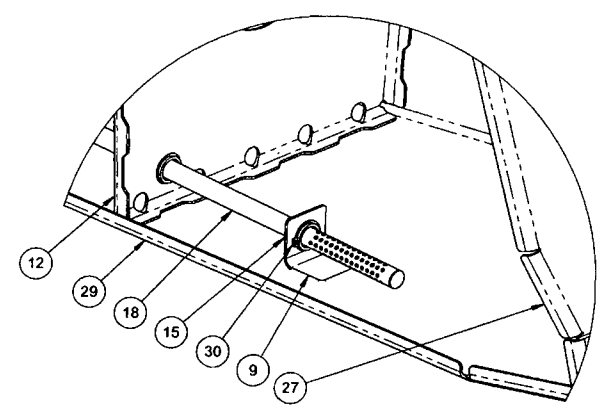
NOTE: Date & initial all entries

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RELEASED
2011-05-30
MD



D4055-041 FUEL TANK ASSEMBLY
D4055-9 TANK BACK REMOVED
TO SHOW INTERIOR DETAIL



DETAIL A
ROTATED FOR CLARITY
SCALE 2X

B6-2

DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO. D4055	REV. B
MFG. APPR.	<i>[Signature]</i>	SHEET 2 OF 15	
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	TANK	NTS
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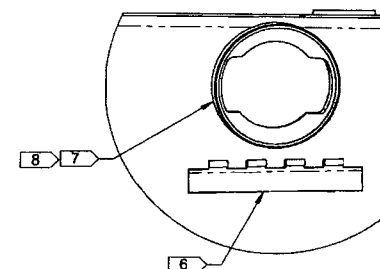
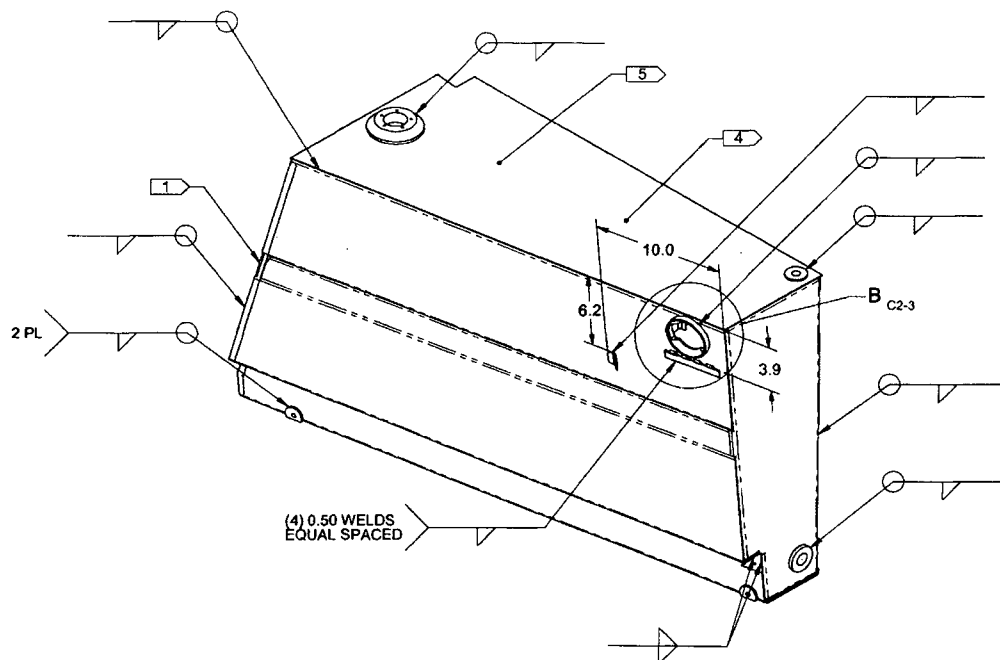
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75224



DETAIL B
ROTATED FOR CLARITY
SCALE 2X

C4-3

D4055-041 FUEL TANK ASSEMBLY
WELDING DETAIL

NOTES:

- 1) TRIM FLANGES AS REQUIRED TO FIT ASSEMBLY
- 2) FINAL CHECK BEFORE LAST PANEL INSTALLED
 - END OF FUEL PICK UP TUBE IS 0.60 OFF THE TANK FLOOR AND 1.96 FROM SIDE WALL
 - FWD AND AFT DRAIN TUBES EXTEND TO CENTER OF TANK
 - ALL SWarf REMOVED
- 3) AFTER FINAL ASSEMBLY, SLOSH TANK WITH MIL-S-4383 OR EQUIVALENT (PR-1005-L BUNA-N-SLOSH)
- 4) ACCEPTABLE TO DRILL 6 (TYP) $\varnothing 0.312$ HOLES IN TANK TOP TO WELD TOP TO AFT BAFFLE (1 HOLE PER BAFFLE TAB)
- 5) ACCEPTABLE TO DRILL 7 (TYP) $\varnothing 0.312$ HOLES IN TANK TOP TO WELD TOP TO FWD BAFFLE (1 HOLE PER BAFFLE TAB)
- 6) CENTER HINGE BELOW FUEL CAP FLANGE
- 7) POSITION FUEL CAP FLANGE AS SHOWN, ELONGATED HOLE APPROXIMATELY HORIZONTAL
- 8) POSITION FUEL CAP FLANGE SO THAT INNER FACE IS FLUSH WITH INSIDE OF TANK

RELEASED
2011-05-30

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D4055	SHEET 3 OF 15
APPROVED		TITLE	SCALE
DE APPR.		TANK	NTS
DATE	11.05.12	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

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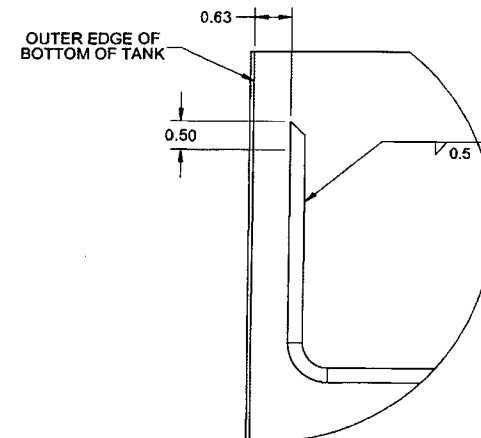
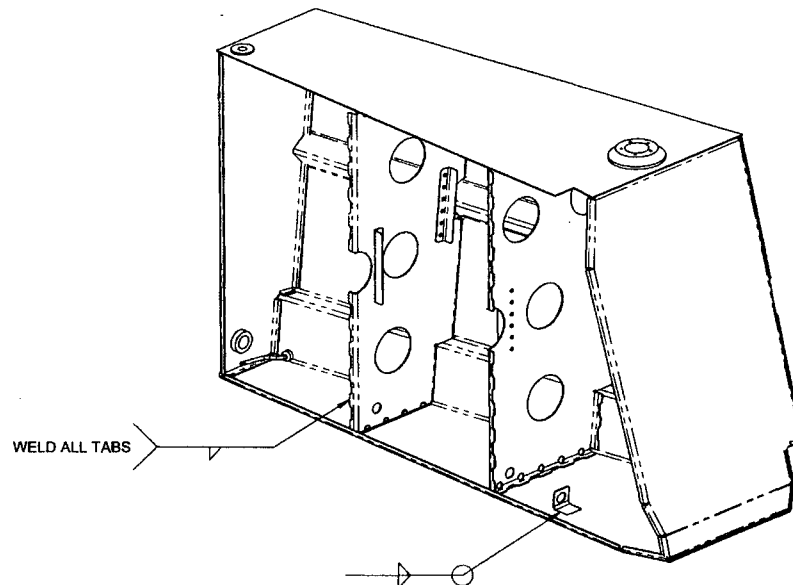
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DRAIN TUBE INSTALLATION - TYP
VIEWED FROM ABOVE
FWD END SHOWN, AFT END OPPOSITE

D4055-041 FUEL TANK ASSEMBLY
WELDING DETAIL

RELEASED
 2011-05-30
 JMH

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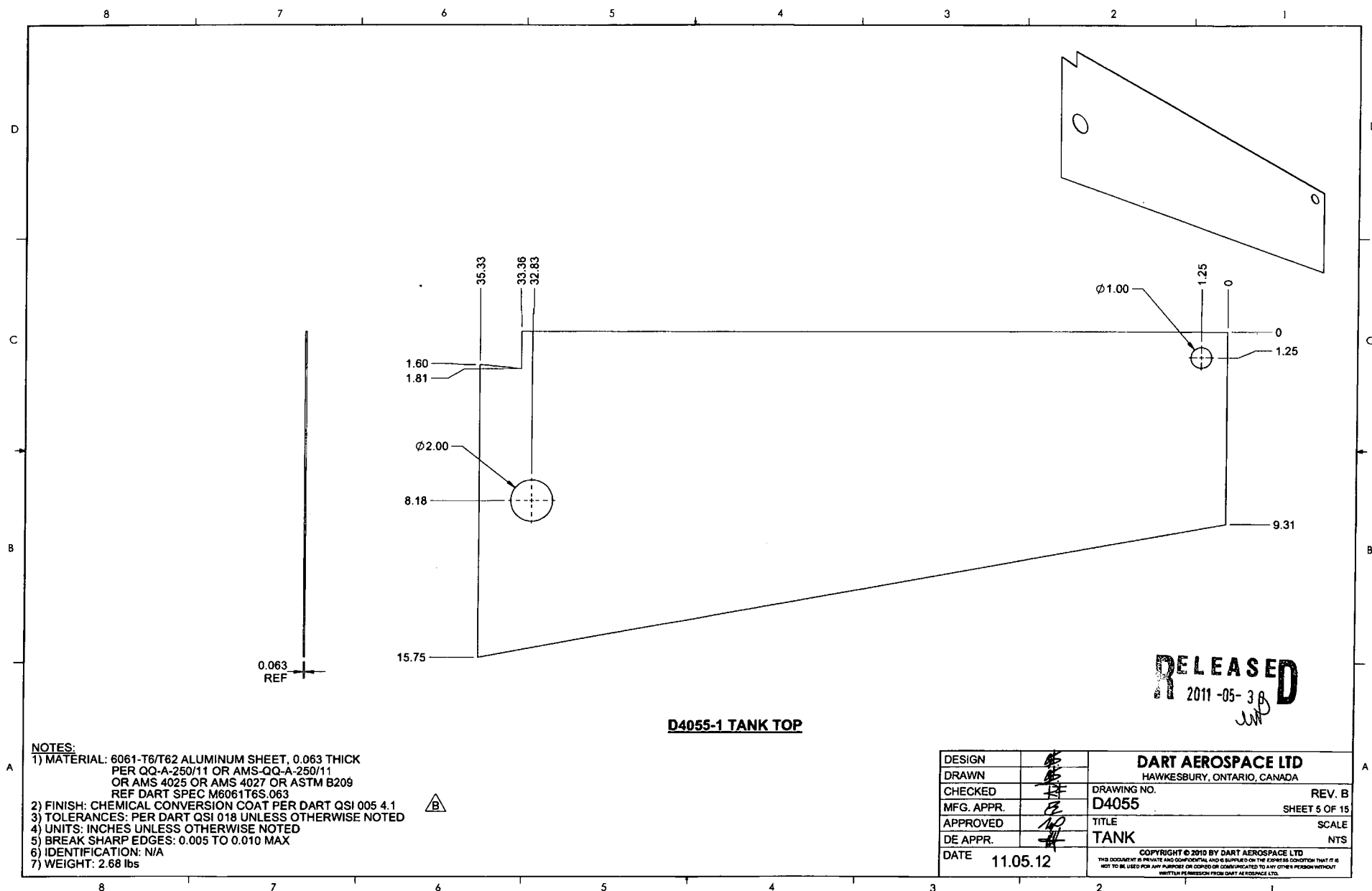
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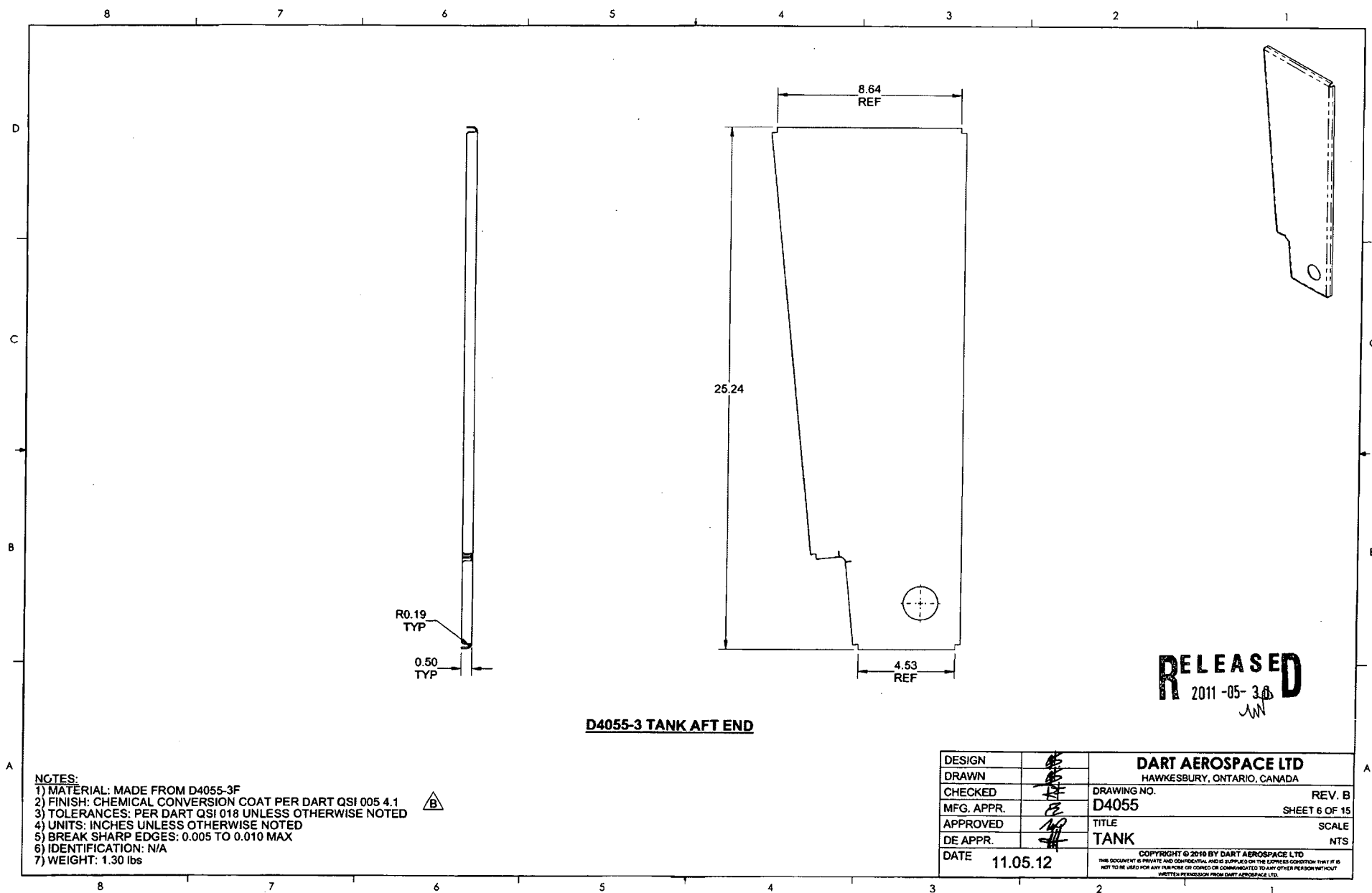
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D4055-3 TANK AFT END

RELEASED
2011-05-30
JW

- NOTES:**
- 1) MATERIAL: MADE FROM D4055-3F
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 1.30 lbs



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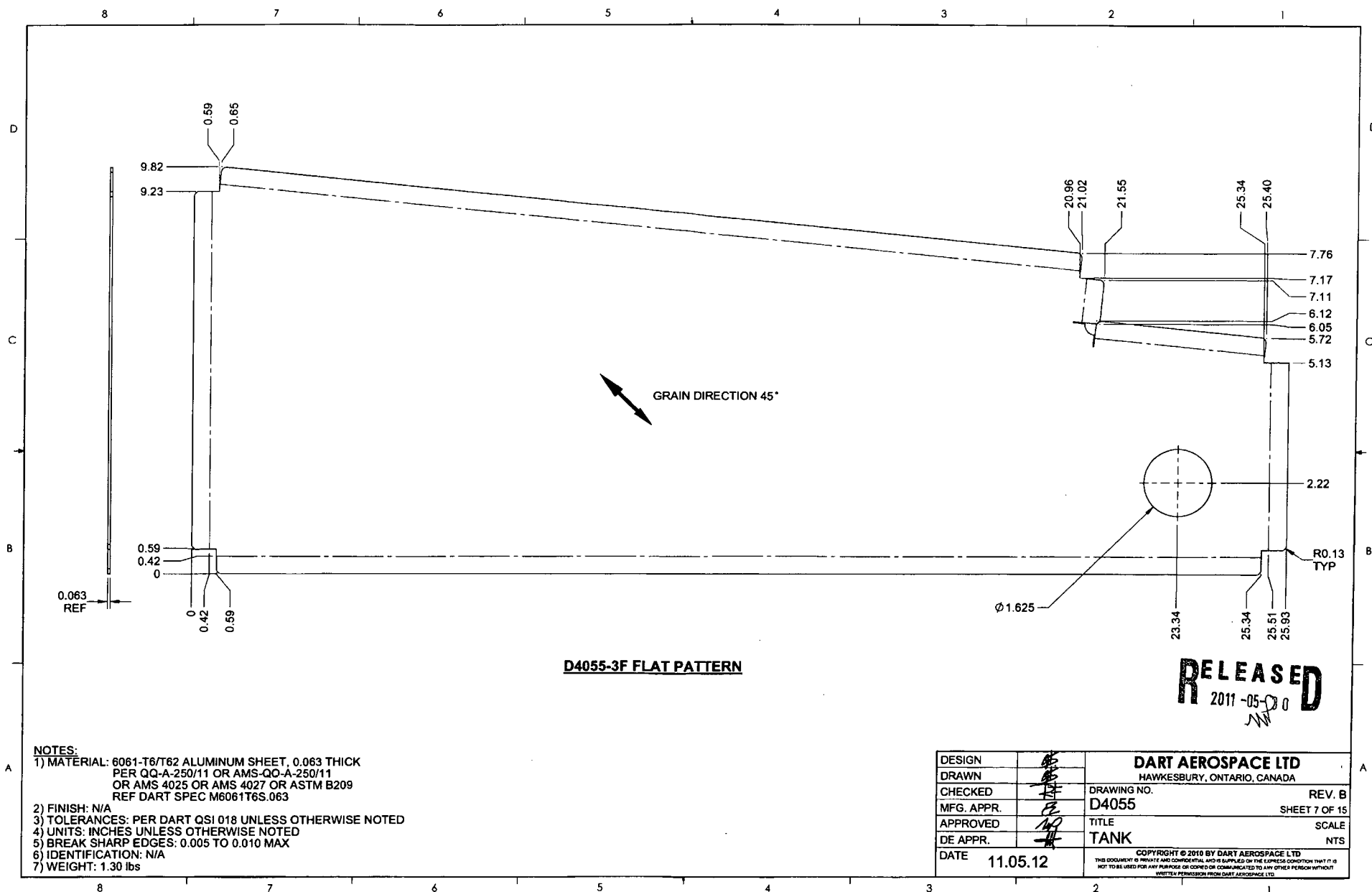
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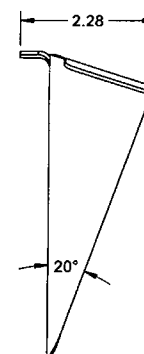
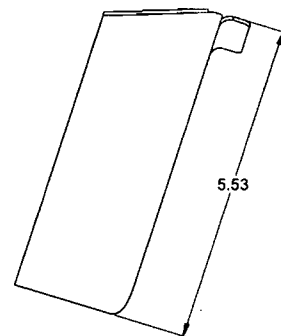
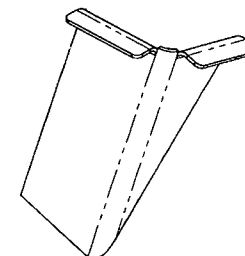
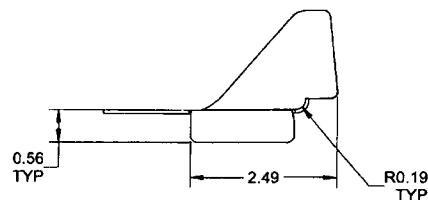
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D4055-5 UPPER CUT OUT

RELEASED
2011-05-30
JW

NOTES:

- 1) MATERIAL: MADE FROM D4055-5F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.10 lbs



DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO. D4055	REV. B
MFG. APPR.	<i>[Signature]</i>	SHEET 8 OF 15	
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	TANK	NTS
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

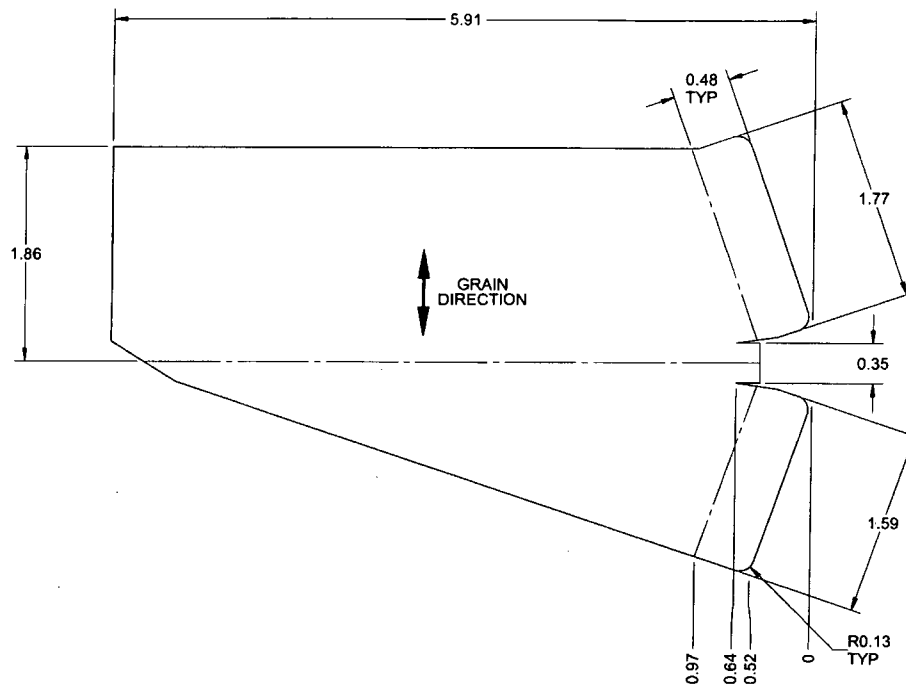
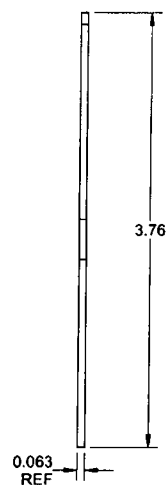
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224

**D4055-5F FLAT PATTERN****NOTES:**

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.063 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.10 lbs

RELEASED
2011-05-30
JAN

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D4055	SHEET 9 OF 15
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

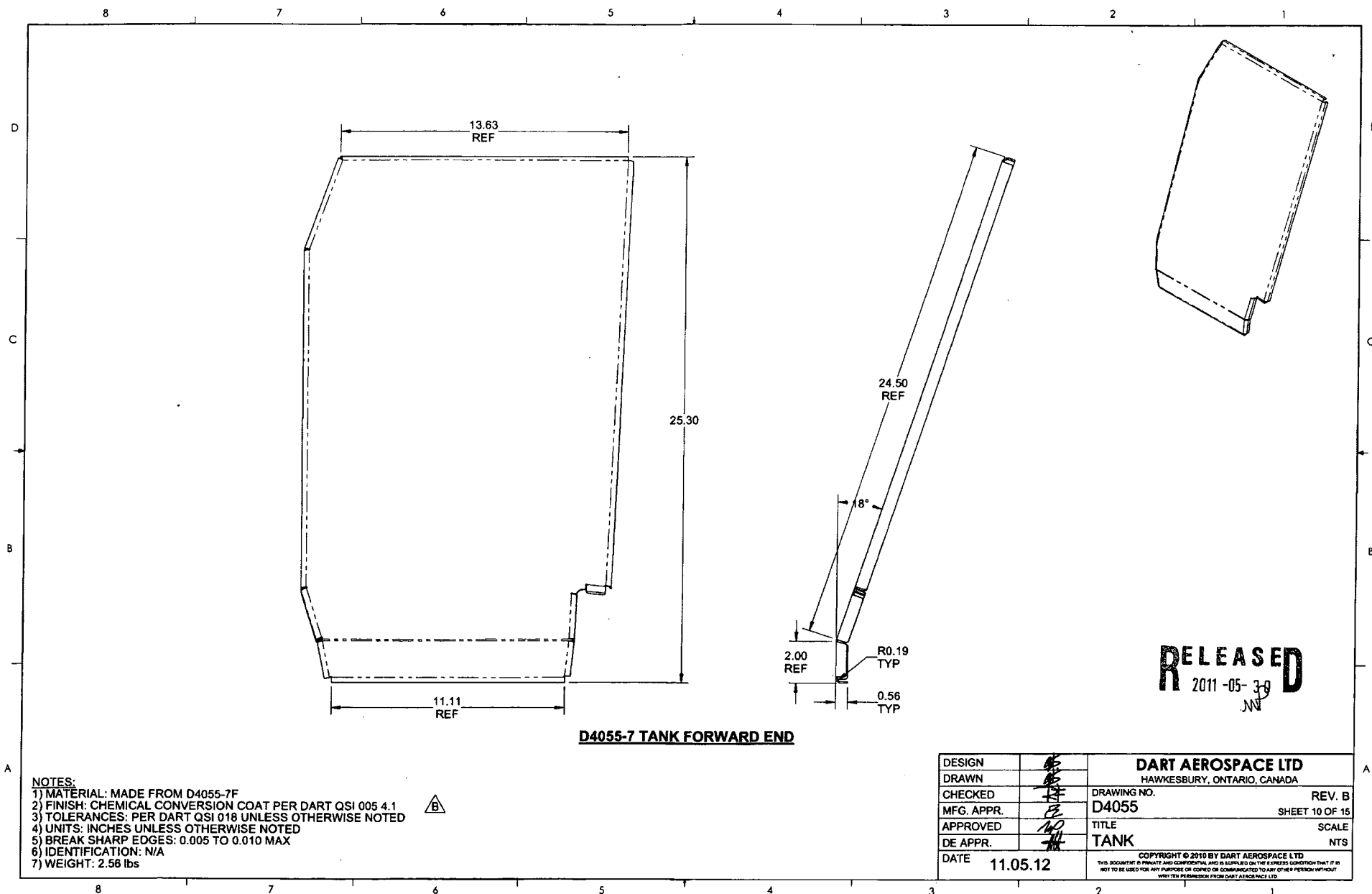
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries







75224



- NOTES:
- 1) MATERIAL: MADE FROM D4055-7F
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 2.56 lbs



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NW

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MFG. APPR.		D4055	SHEET 10 OF 15
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

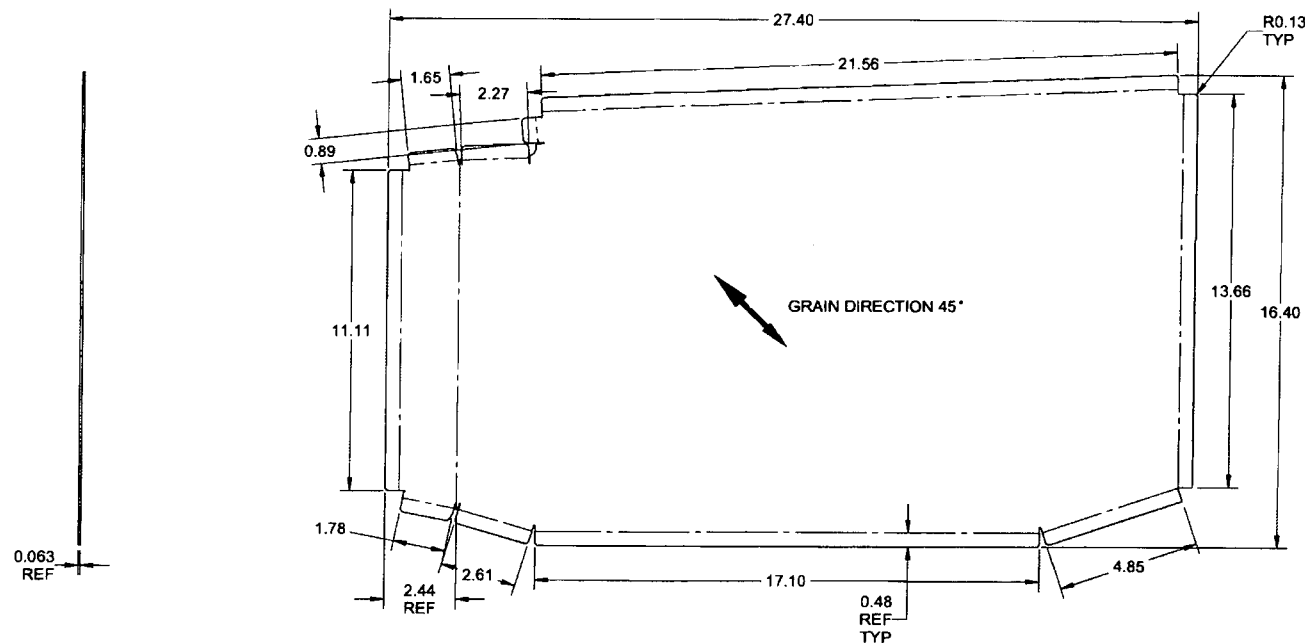
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224

**D4055-7F FLAT PATTERN**

RELEASED
 2011-05-30
 JNW

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.063 THICK
 PER QQ-A-250/11 OR AMS-QQ-A-250/11
 OR AMS 4025 OR AMS 4027 OR ASTM B209
 REF DART SPEC M6061T6S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 2.56 lbs

DESIGN		DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

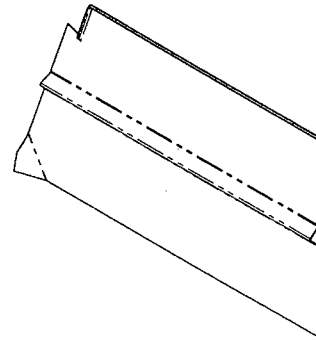
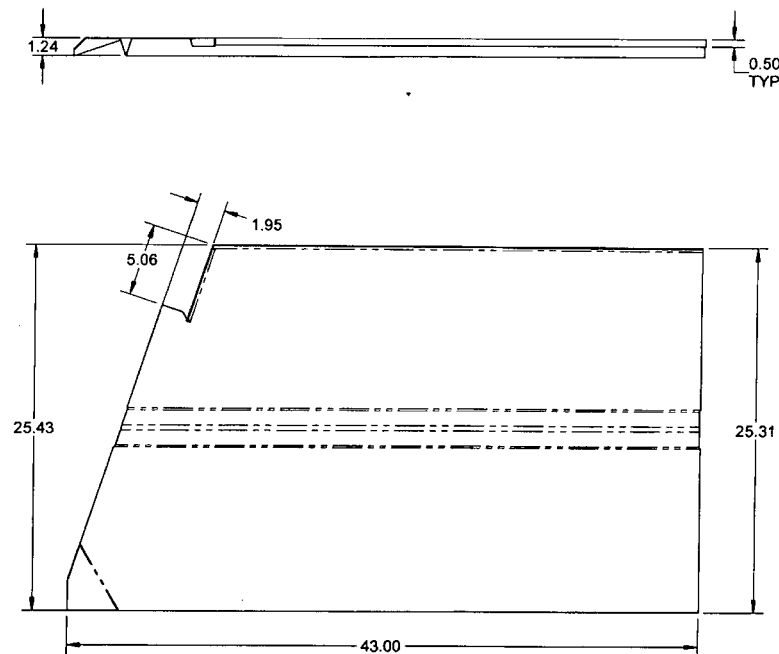
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224



D4055-9 TANK BACK

RELEASED
2011-05-30
JW

- NOTES:**
- 1) MATERIAL: MADE FROM D4055-9F
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 6.41 lbs



DESIGN		DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

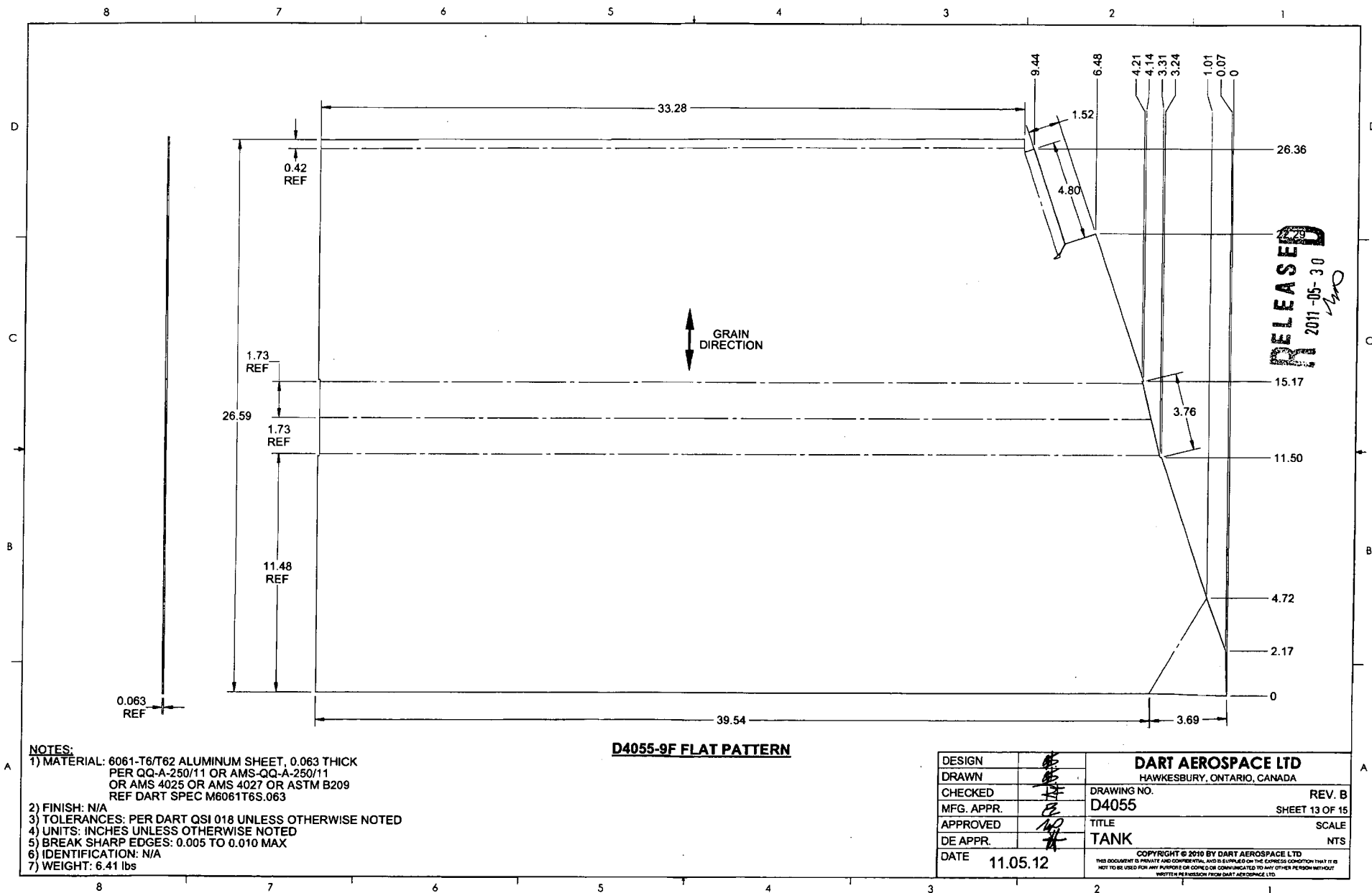
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224



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 2011-05-30
MD

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

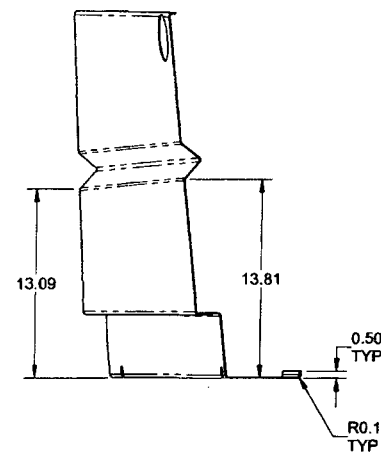
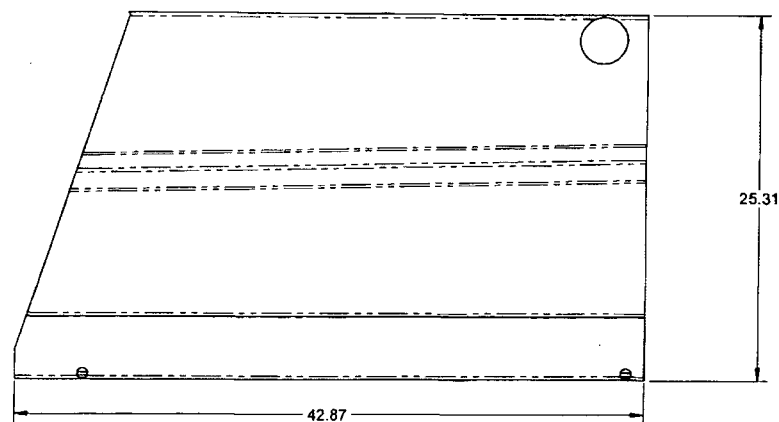
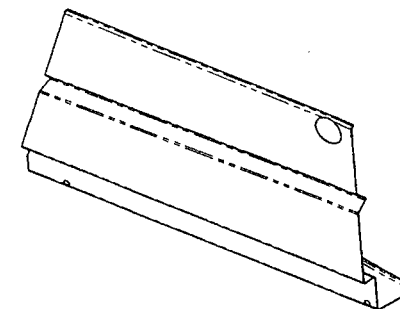
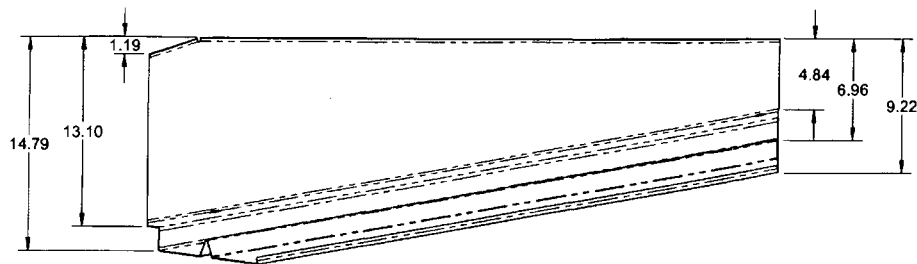
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224



D4055-11 TANK FRONT AND BOTTOM

NOTES:

- 1) MATERIAL: MADE FROM D4055-11F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 9.32 lbs



DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

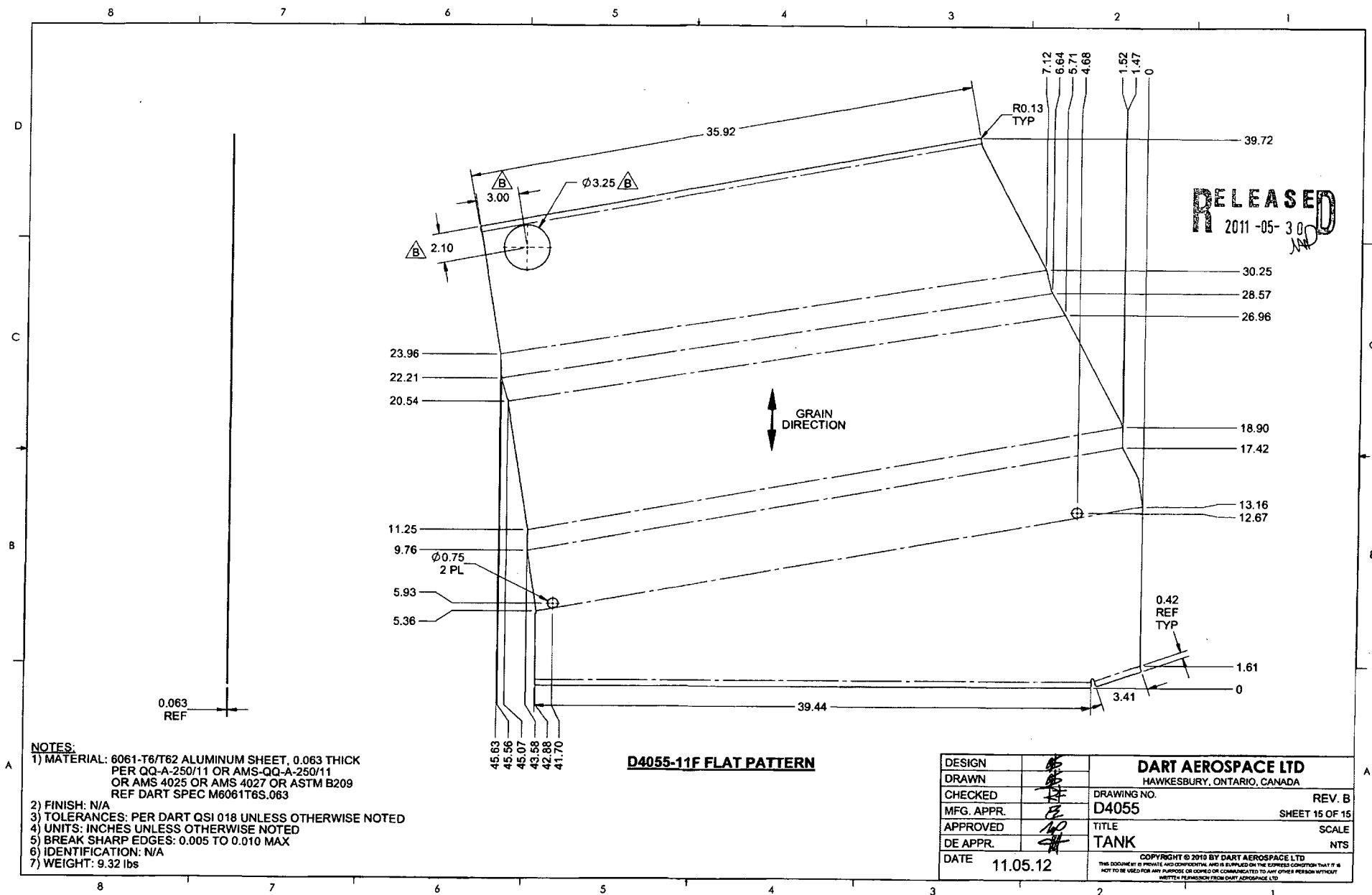
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

75224



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries